	Application No.	Applicant(s)
Notice of Allowability	09/965,916	RUEHLE, MICHAEL D.
	Examiner	Art Unit
	Chat C. Do	2124
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IN of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in State of the second	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>11/02/2004</u> .		
2. The allowed claim(s) is/are 1-30 and 32-36.		
3. \boxtimes The drawings filed on <u>15 January 2002</u> are accepted by t	he Examiner.	
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority described international Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	re been received. re been received in Applicati	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file MENT of this application.	e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.	
(a) ☐ including changes required by the Notice of Draftspe	rson's Patent Drawing Revie	w (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	→	
(b) ☐ including changes required by the attached Examined Paper No./Mail Date	r's Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MAT	ERIAL must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	nformal Patent Application (PTO-152)
Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB	Paper No.	/Mail Date Amendment/Comment
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit	_	Statement of Reasons for Allowance
of Biological Material	9. Other	

REASONS FOR ALLOWANCE

1. Claims 1-30 and 32-36 are allowed.

2. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to disclose or render an obviousness of an apparatus comprising a modular multiplier including a plurality of independent computation channels wherein each capable of performing an independent modular multiplication operation; and a coupling device interposed between computation channels as cited in independent claims 1, 9, 17, 23, and 27. Further, the prior art of records fails to disclose or render an obviousness of a method comprising receiving a data value at a first end of a systolic array multiplier from a second end of the systolic array multiplier, receiving a data value or a channel data from a multiplexer; and providing either the data value from the second end of the systolic array multiplier or the channel data input signal to the first end of a systolic array multiplier via an output of the multiplexer as cited in independent claim 32.

The closest found prior art is Weixin et al. ("A Systolic Linear Array for Modular Multiplication"). Weixin et al. disclose an apparatus comprising a modular multiplier including a plurality of independent computation channels and a coupling devices interposed between computation channels. However, Weixin et al. fail to disclose each computation channel capable of performing an independent modular multiplication operation; and providing either the data value from the second end of the systolic array

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multiplier or the channel data input signal to the first end of a systolic array multiplier via an output of the multiplexer as cited above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The examiner can normally be reached on M => F from 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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